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CYP21A2 Antibody (aa151-200)

Rabbit Polyclonal Antibody
Catalog # ALS15799

Specification

CYP21A2 Antibody (aa151-200) - Product Information

Application	**IHC, WB**
Primary Accession	P08686
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56kDa KDa**

CYP21A2 Antibody (aa151-200) - Additional Information

Gene ID 1589

Other Names
Steroid 21-hydroxylase, 1.14.99.10, 21-OHase, Cytochrome P-450c21, Cytochrome P450 21, Cytochrome P450 XXI, Cytochrome P450-C21, Cytochrome P450-C21B, CYP21A2, CYP21, CYP21B

Target/Specificity
Cytochrome P450 21A2 Antibody detects endogenous levels of total Cytochrome P450 21A2 protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
CYP21A2 Antibody (aa151-200) is for research use only and not for use in diagnostic or therapeutic procedures.

CYP21A2 Antibody (aa151-200) - Protein Information

Name CYP21A2

Synonyms CYP21, CYP21B

Function
A cytochrome P450 monooxygenase that plays a major role in adrenal steroidogenesis. Catalyzes the hydroxylation at C-21 of progesterone and 17alpha-hydroxyprogesterone to respectively form 11- deoxycorticosterone and 11-deoxycortisol, intermediate metabolites in the biosynthetic pathway of mineralocorticoids and glucocorticoids (PubMed:25855791, PubMed:10602386, PubMed:16984992, PubMed:22014889, PubMed:27721825).

Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:25855791).

Cellular Location
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

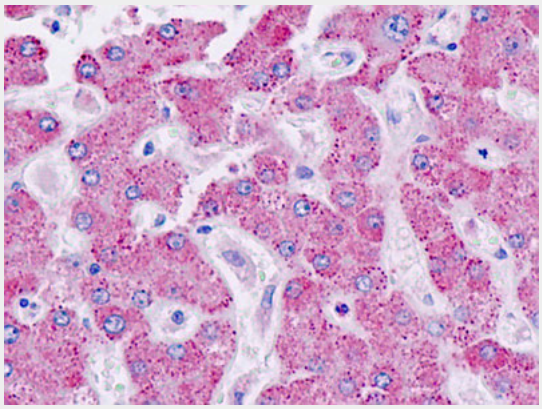
Volume
50 µl

CYP21A2 Antibody (aa151-200) - Protocols

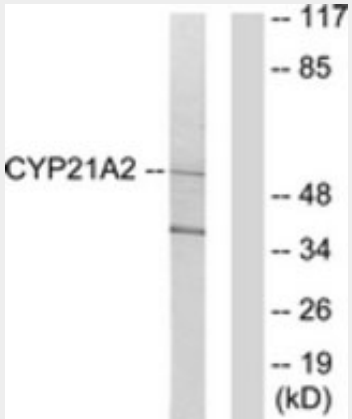
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP21A2 Antibody (aa151-200) - Images



Anti-CYP21A2 antibody IHC staining of human liver.



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Western blot of extracts from 293 cells, using Cytochrome P450 21A2 Antibody.

CYP21A2 Antibody (aa151-200) - Background

Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.

CYP21A2 Antibody (aa151-200) - References

Higashi Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:2841-2845(1986).
White P.C.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:5111-5115(1986).
Rodrigues N.R.,et al.EMBO J. 6:1653-1661(1987).
Globerman H.,et al.J. Clin. Invest. 82:139-144(1988).
Helmberg A.,et al.Mol. Endocrinol. 6:1318-1322(1992).